

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P393416

Luminaire Tested: **24EN-LD2-30-UNV-L82765-W2A-1-U (5700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393416
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-31)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-30-UNV-L82765-W2A-1-U (5700K)
Description: 2X4 ENCOUNTER, 3000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2944.4 lumens
Efficiency: N/A
Efficacy: 142.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

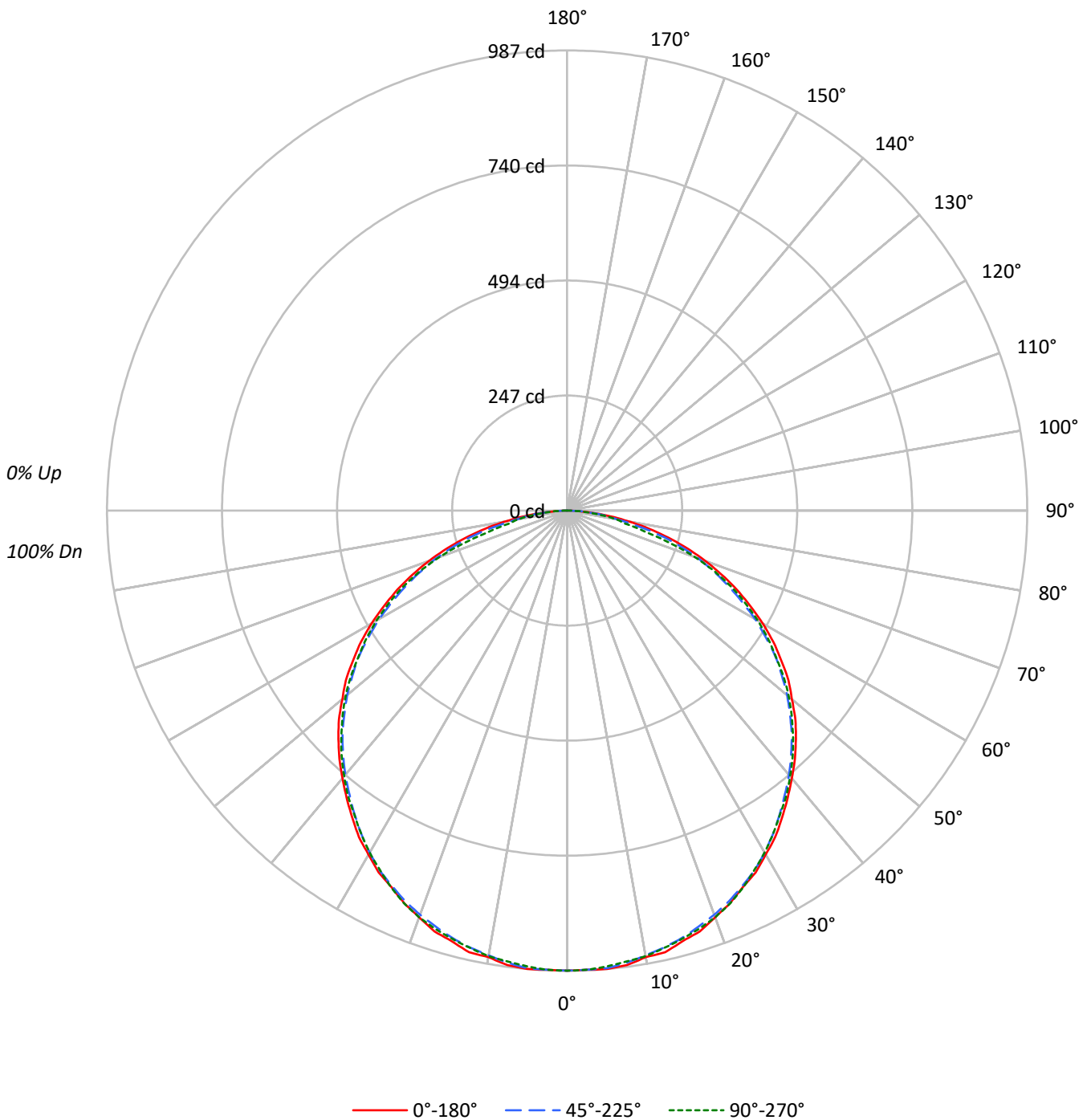
Input Watts (W): 20.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	36	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1328	1328	1328
5°	1333	1330	1325
10°	1329	1323	1326
15°	1332	1322	1325
20°	1329	1321	1329
25°	1324	1319	1325
30°	1324	1316	1316
35°	1320	1306	1308
40°	1317	1300	1307
45°	1320	1297	1304
50°	1317	1289	1299
55°	1316	1280	1282
60°	1305	1253	1271
65°	1280	1212	1243
70°	1240	1175	1149
75°	1168	1082	887
80°	1038	844	821
85°	848	760	684



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.6	3.2
10°-20°	268.4	9.1
20°-30°	410.1	13.9
30°-40°	499.9	17.0
40°-50°	527.6	17.9
50°-60°	489.8	16.6
60°-70°	383.6	13.0
70°-80°	214.5	7.3
80°-90°	57.1	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	772.0	26.2
0°-40°	1271.9	43.2
0°-60°	2289.3	77.7
0°-90°	2944.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2944.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	987	987	987	987	987	
5°	987	986	985	985	981	94
15°	956	950	949	948	951	270
25°	892	891	889	886	892	412
35°	804	801	795	798	796	503
45°	694	686	681	678	685	535
55°	561	553	546	543	546	501
65°	402	393	381	385	390	397
75°	225	218	208	178	171	237
85°	55	49	49	46	44	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	986.9	986.9	986.9	986.9	986.9
2.5°	986.0	987.9	986.0	984.1	986.0
5°	986.9	986.0	985.0	985.0	981.2
7.5°	983.1	981.2	978.3	979.2	975.4
10°	972.5	972.5	968.6	971.5	970.6
12.5°	970.6	960.9	960.0	960.9	960.9
15°	956.1	950.3	949.4	948.4	951.3
17.5°	946.5	936.8	935.9	933.9	940.7
20°	928.2	922.4	922.4	919.5	928.2
22.5°	911.8	906.0	907.0	903.1	912.7
25°	891.5	890.6	888.6	885.7	892.5
27.5°	875.1	871.3	870.3	867.4	869.4
30°	852.0	851.1	847.2	846.2	847.2
32.5°	830.8	827.9	822.1	823.1	822.1
35°	803.8	800.9	795.1	798.0	796.1
37.5°	776.8	773.9	767.2	770.1	772.0
40°	749.9	746.0	740.2	743.1	744.1
42.5°	722.9	716.1	711.3	709.4	716.1
45°	693.9	686.2	681.4	677.6	685.3
47.5°	664.1	655.4	648.6	646.7	653.5
50°	629.4	622.6	615.9	613.0	620.7
52.5°	598.5	587.9	580.2	578.3	585.0
55°	560.9	553.2	545.5	542.6	546.5
57.5°	524.3	515.6	505.0	505.0	510.8
60°	484.8	476.1	465.5	466.5	472.3
62.5°	442.4	436.6	422.2	426.0	431.8
65°	401.9	393.2	380.7	384.6	390.3
67.5°	358.5	350.8	339.3	340.2	343.1
70°	315.2	305.5	298.8	292.0	292.0
72.5°	269.9	262.2	254.4	236.1	232.3
75°	224.6	217.8	208.2	178.3	170.6
77.5°	180.2	175.4	157.1	129.2	126.3
80°	134.0	133.0	108.9	106.0	106.0
82.5°	92.5	88.7	82.9	77.1	74.2
85°	54.9	49.2	49.2	46.3	44.3
87.5°	17.3	20.2	20.2	20.2	20.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)